

IN THE CLAIMS

1. (Newly Amended) A method for recovering data transmitted over a plurality of channels in a wireless code division multiple access communication system, the method comprising:

receiving the plurality of channels as a received signal, each channel associated with a code;

subtracting for each of the plurality of channels others of the plurality of channels from the received signal and despread a result of that subtracting as data for that channel; wherein the subtracting others of the plurality of channels including for each channel: despread the received signal with the others channels codes; respread the despread others channel codes using the other channels codes; and subtracting from the received signal the respread other channels.

2. (Canceled).

3. (Newly Amended) The method of claim 1 2 wherein the despread is performed by a mixer.

4. (Newly Amended) The method of claim 1 2 wherein the despreading is performed by a matched filter.

5. (Newly Amended) A receiver for recovering data transmitted over a plurality of channels in a wireless code division multiple access communication system, the receiver comprising:

means for receiving the plurality of channels as a received signal, each channel associated with a code;

means for subtracting for each of the plurality of channels, others of the plurality of channels from the received signal and despreading a result of that subtracting as data for that channel; wherein the means for subtracting includes for each channel: means for despreading the received signal with the others channels codes; means for resreading the despread others channels codes; and means for subtracting from the received signal the resread other channels.

6. (Canceled).

7. (Newly Amended) The receiver of claim 5 2 wherein the despreading means is a mixer.

8. (Newly Amended) The receiver of claim 5 ~~2~~ wherein the despreading means is a matched filter.

9. (Canceled).

10. (Newly Amended) A receiver for recovering data transmitted over a plurality of channels in a wireless code division multiple access communication system, the receiver comprising:

an input configured to receive the plurality of channels as a received signal, each channel associated with a code; and

for each of the plurality of channels, a subtractor for subtracting others of the plurality of channels from the received signal and despreading a result of that subtracting as data for that channel; ~~The receiver of claim 9 further comprising:~~

for each channel, a first mixer operatively coupled to the input for despreading the received signal with that channel code;

for each channel, a second mixer for resreading that channel despread signal; and

wherein for each channel, the subtractor subtracts from the received signal the resread channels other than that channel.

11. (Newly Amended) A receiver for recovering data transmitted over a plurality of channels in a wireless code division multiple access communication system, the receiver comprising:

an input configured to receive the plurality of channels as a received signal, each channel associated with a code; and

for each of the plurality of channels, a subtractor for subtracting others of the plurality of channels from the received signal and despreading a result of that subtracting as data for that channel; ~~The receiver of claim 9 further comprising:~~

for each channel, a matched filter operatively coupled to the input for despreading the received signal with that channel code;

for each channel, a mixer for resreading that channel despread signal; and

wherein for each channel, the subtractor subtracts from the received signal the resread channels other than that channel.